INTRODUCTION

Review question / Objective: P: Patients who underwent robotic pancreas surgery; I: Robotic parenchyma-sparing pancreatectomy (enucleation, central pancreatectomy, uncinectomy, duodenal-sparing pancreatic head resection); C: None; O: Short term operative outcomes (operative morbidity, blood loss, length of stay) and long term outcomes (endocrine and exocrine insufficiency).

Rationale: We aim to explore the literature to determine the current indications and outcomes associated with robotic parenchyma-sparing pancreatectomy.

Condition being studied: Pancreatic lesions primarily low-grade or pre-malignant lesions.

METHODS

Participant or population: Patients who undergo robotic pancreas surgery.
**Intervention:** Robotic parenchyma-sparing pancreatectomy (enucleation, central pancreatectomy, uncinectomy, duodenal-sparing pancreatic head resection).

**Comparator:** None.

**Study designs to be included:** Case reports, Case Series, Retrospective comparative studies, Prospective comparative studies.

**Eligibility criteria:** No additional criteria.

**Information sources:** Pubmed and Embase.

**Main outcome(s):** Short term operative outcomes (operative morbidity, blood loss, length of stay) and long term outcomes (endocrine and exocrine insufficiency).

**Data management:** Excel.

**Quality assessment / Risk of bias analysis:** MINORS criteria for non-randomized studies and JBI Critical Appraisal Checklist for Case Series/Case Reports.

**Strategy of data synthesis:** Descriptive data synthesis exclusively. No meta-analysis will be performed.

**Subgroup analysis:** None to be performed.

**Sensitivity analysis:** None to be performed.

**Language restriction:** English.

**Country(ies) involved:** United States.

**Keywords:** Enucleation, Central Pancreatectomy, Parenchyma-Sparing.

**Contributions of each author:**
- Author 1 - Richard Zheng - 1. Performed systematic review independently; 2. Performed data extraction; 3. Drafted the main manuscript; 4. Edited Final Manuscript.
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